

Title (en)
FILM FORMATION COMPOSITION FOR PREVENTING BLACKENING OF STEEL SHEET, AND STEEL SHEET HAVING FILM FORMED BY COMPOSITION

Title (de)
FILMBILDENDE ZUSAMMENSETZUNG ZUR VERHINDERUNG DER VERDUNKELUNG EINES STAHLBLECHS UND STAHLBLECH MIT EINEM AUF DIESER ZUSAMMENSETZUNG GEFORMTEN FILM

Title (fr)
COMPOSITION DE FORMATION DE FILM POUR PRÉVENIR LE NOIRCISSEMENT D'UNE FEUILLE D'ACIER ET FEUILLE D'ACIER AYANT UN FILM FORMÉ PAR LA COMPOSITION

Publication
EP 2692900 A4 20141224 (EN)

Application
EP 12765012 A 20120328

Priority
• KR 20110027814 A 20110328
• KR 2012002294 W 20120328

Abstract (en)
[origin: EP2692900A2] The present invention relates to a film formation composition for improving the blackening of the surface of a steel sheet, particularly, the surface of a steel sheet containing Mg on the surface thereof, such as a Mg sheet, a plated steel sheet having a plated layer comprising Mg, and the like, a steel sheet comprising a film formed by the composition, and a method for forming the film. Provided are a film formation composition for preventing the blackening of the surface of a steel sheet, comprising: 2.5-7.5 parts by weight of a water-soluble phenoxy resin; 0.1-0.5 parts by weight of a fluorometal acid; 0.1-0.5 parts by weight of a metal compound; and 1-5 parts by weight of a cross-linking agent, wherein the steel sheet is a magnesium sheet comprising magnesium on the surface thereof or a steel sheet having a plated layer containing magnesium, a steel sheet comprising a film formed by the composition, and a method for forming the film.

IPC 8 full level
C23C 26/00 (2006.01); **C09D 5/08** (2006.01); **C09D 7/61** (2018.01); **C09D 171/12** (2006.01)

CPC (source: EP KR US)
C09D 5/08 (2013.01 - EP KR US); **C09D 7/61** (2017.12 - EP US); **C09D 171/00** (2013.01 - EP US); **C09D 171/12** (2013.01 - KR); **C23C 26/00** (2013.01 - KR US); **C23C 30/00** (2013.01 - US); **C08G 2650/56** (2013.01 - EP US); **C08K 3/08** (2013.01 - EP US); **C08K 3/16** (2013.01 - EP US); **Y10T 428/12569** (2015.01 - EP US)

Citation (search report)
• [X] JP 2009248460 A 20091029 - NIPPON STEEL CORP
• [A] WO 2007075050 A1 20070705 - POSCO [KR], et al
• [A] WO 0148265 A1 20010705 - PO HANG IRON & STEEL [KR], et al
• See references of WO 2012134179A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2692900 A2 20140205; **EP 2692900 A4 20141224**; **EP 2692900 B1 20170809**; CN 103459669 A 20131218; CN 103459669 B 20160106; JP 2014514448 A 20140619; JP 5732587 B2 20150610; KR 101262497 B1 20130508; KR 20120109924 A 20121009; US 2014011048 A1 20140109; US 9296903 B2 20160329; WO 2012134179 A2 20121004; WO 2012134179 A3 20121206

DOCDB simple family (application)
EP 12765012 A 20120328; CN 201280015117 A 20120328; JP 2014502464 A 20120328; KR 20110027814 A 20110328; KR 2012002294 W 20120328; US 201214005567 A 20120328